

ALBU, Toma

On a class of rational numbers. Gaz mat fiz 70 no.4 129-131 Ap '65.

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RUM/9-11-4-6/43

25(5)

AUTHORS:

Chişu, Al., Engineer, Albu, T. and Pop, Stefan, Engineers

TITLE:

Some Aspects of the Wear and Limit-Lubrication in Zinal Journal

Bearings

PERIODICAL:

Metalurgia și Construcția de Mașini, 1959, Vol 11, Nr 4, pp 287-

290 (RUMANIA)

ABSTRACT:

The sliding bushings made from zinal, cast and processed at the factory "I Mai", Ploesti, Rumania, have been tested in heavy-duty operating conditions, at high specific pressures of 40 to 150 kilograms per sq.centimeter (569 to 2133.5 rsi), and low speeds of 315 rpm. The plotting of the temperature and friction coefficient against the time gives picture of wear in various tests, figures I to 5. It is noted that after a smooth increase there is a sudden variation to a maximum temperature and friction coefficient, followed by a decrease to a stable value. The maximum temperature observed was 59°C (138.2 F) which indicates no danger of jamming. The authors also tested the journal bearings of zinal under limit-lubrication conditions. They explain the formation of

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RUM/9-11-4-6/43

Some Aspects of the Wear and Limit-Lubrication in Zinal Journal Bearings

the limit layer qualitatively. The experiments were made with a lubricant corresponding to Rumanian standard 413STAS 751-49, of 13° Engler. The authors conclude that under the heavy-duty operating conditions (2130 psi) the bearings tested had remarkable qualities. They affirm that zinal is as good as bronze or other antifriction materials, and it has the advantage of being cheaper. Limitations for zinal (zinc-aluminum alloys) are imposed by acid mediums and temperatures over 120°C (248 F). There are 7 graphs, 1 diagram and 1 table.

Card 2/2

CHISU, A.; MAROS, D.; ALBU, T.; HULPE, G.; MATIESANU, D.; DALY, A.; VERES, A.; SZABO, A.

Determining the wear and tear on cogwheels by radioactive isotopes. Bul stiint polit Cluj no.5:217-223 '62.

1. Institutul de fizica atomica Cluj (for Szabo).

R/008/62/013/006/005/008 A065/A126

AUTHORS:

Chişu, A., Maroş, D., Albu, T., Hulpe, G., Mateişanu, D., Daly, A.,

Szabo, A.

TITLE:

Contributions to the investigation of the wear of gears by means of

radioactive isotopes

PERIODICAL: Studii și cercetări de mecanică aplicată, v. 13, no. 6, 1962, 1,549

- 1,555

A Co^{60} bolt, 3 mm long and 1 mm in diameter, was introduced into the TEXT: tooth-face of a gear of globular pearlite cast iron, while the gear was then subjected to a long-period test in a universal gear testing machine provided with a closed circuit lubrication and a Geiger-Müller counter. The radioactive particles, retained together with the wear dust by the oil filter, were detected by the Geiger-Müller counter, whereas the impulses were counted in 1/2-hour intervals. The qualitative wear curves, traced on the basis of this method, show the evolution of the wear depending on time and load. Presented are then the calibration process used for the qualitative estimation of the wear, as well as the

Card 1/2

R/008/62/013/006/005/008 A065/A126

Contributions to the investigation of

calculation of the wear of the tested gear. The precision of these measurements is limited by the statistic character of the radioactive disintegration. In the case of the conducted experiments, the statistic error varied between ± 2% and ± 5%. These preliminary experiments compiled in a table present the result of. the wear test, depending on time and load. The tests conducted by the Institutul politehnic (Polytechnical Institute) in Cluj, the Laboratorul de radioizotopi, Institutul de fizică atomică (Laboratory of Radioisotopes, Institute of Nuclear Physics) in Cluj, and the Uzinele "1 Mai" ("1 Mai" Plant) in Ploiești, will be continued. There are 4 figures.

ASSOCIATIONS: Institutul politehnic (Polytechnical Institute) in Cluj (Chişu, Maros, Albu, Hulpe, Mateisanu, and Daly); Institutul de fizică

atomică (Institute of Nuclear Physics) in Cluj (Szabo)

June 16, 1962 SUBMITTED:

Card 2/2

USSR / General Biology. Individua: Development.

B-4

Abs Jour: Ref Zhur-Biol., No 10, 1958, 42817.

Author : Parkhon, K. I.; Laurian, Lidiya; Belechanu, Marianna;

Albu-Aderka, Nataliya.

: Controlled Embryogenesis. Report 5. Effect of In-Inst Title

sulin on Hen Embryonic Development (Congenital

Cataract and Achondroplasia).

Orig Pub: Zh. med. nauk. Akad. RNR, 1956, 1, No 2, 5-47.

Abstract: Studies were conducted on eggs of White Leghorn and Rhode Island varieties. All told, 1000 eggs were used. Insulin (I) was introduced either by drops on the chorioallantois, or by injection through the shell. The eggs were treated daily or every other day, beginning with the 7th and up to the 14th day of incubation. In each injection

Card 1/3

13

USSR / General Biology. Individual Development.

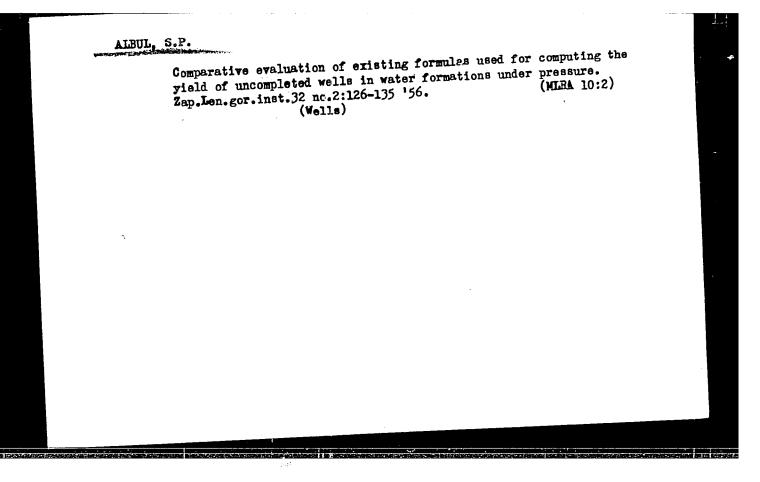
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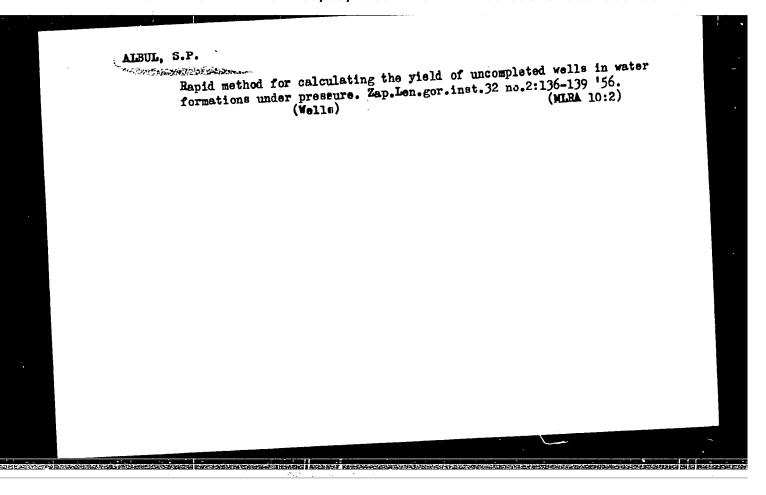
Abs Jour: Ref Zhur-Biol., No 10, 1958, 42817.

Abstract: plasia one injection is sufficient, while the formation of a cataract requires at least 5 injections. Introduction of I starting with the 11th day of incubation causes no defects. In the authors opinion, the mechanism of anomalous generation is related to disruption of carbohydrate metabolism. Bibl. 104 refs.

Card 3/3

14





MAKSIMOV, Vasiliy Mikhaylovich, dotsent, kand.geologo-miner.nauk; ASATUR, K.G., dotsent, kand.tekhn.nauk; DAVIDOVICH, V.I., dotsent, kand. tekhn.nauk; ALBUL. S.P. kand.geologo-miner.nauk; PAUKER, N.G., inzh.-gidrogeolog; OSTROUMOV, B.P., gidrotekhnik; ZAYTSEV, I.K., doktor geologo-miner.nauk; TOLSTIKHIN, N.I., prof., doktor geologomineral.nauk; REZNIKOV, A.A., kand.khim.nauk, starshiy nauchnyy sotrudnik; MERSHALOV, A.F., assistent; VOROTYNTSEV, V.T., dotsent, kand.tekhn.nauk; MARKOV, I.A., dotsent, kand.geologo-miner.nauk; KERKIS, Ye.Ye., dotsent, kand.geologo-miner.nauk; KHITROV, I.N., inzh.-geolog; BOROVITSKIY, V.P., kand.geologo-miner.nauk; RAVDONIKAS, O.V., kand.geologo-miner.nauk; ONIN, N.M., kand.geologo-miner.nauk; BASKOV, Ye.A., inzh.-gidrogeolog; NOVOZHILOV, V.N., dotsent, kend. geologo-miner.nauk; PEKEL'NYY, I.S., inzh.-gidrogeolog; NEVEL'SHTEYN, Yu.G., inzh.-gidrogeolog; BOSKIS, S.G., inzh.-gidrotekhnik; NIKIFOROV, Ye.M., inzh.-gidrogeolog; GATAL'SKIY, M.A., prof., doktor geologominer.nauk, nauchnyy red.; DOLMATOV, P.S., vodushchiy red.; GEN.-NAD'YEVA, I.M., tekhn.red.

[Hydrologist's handbook] Spravochnoe rukovodstvo gidrogeologa.
Leningrad, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry.
Leningr.otd-nie, 1959. 836 p. (MIRA 12:4)

1. Vsesoyuznyy geologicheskiy nauchno-issledovatel'skiy institut (for Reznikov). (Hydrology)

	Hydrochemical ore prospecting method. Razved. i okh. nedr. 27 no.4: (MIRA 14:5) 7-12 Ap '61. 1. Universitet druzhby narodov imeni Patrisa Lumumby. (Geochemical prospecting)	
	1. Universitet druzhby harodov imbourded in (Geochemical prospecting)	
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Physicomathematical theory of the field of dissemination in hydrochemical ore prospecting. Biul. MOIP. Otd. geol. 36 no.2:134-135 Mr-Ap '6' (MIRA 14:7) (Water, Underground--Analysis)

ALBUL, S.P.; PETERSEL', L.Kh.

Results of geochemical studies of fluvial sediments in a drainage network in the regions of complex metal occurrences in the Estonian S.S.R. Trudy VITR no.3:304-316 '61. (MIRA 15:7) (Estonia—Geochemical prospecting)

ALBUL, S.P.; ZVONKOVA, M.B.; KAS'YANOVA, I.V.; SUDOV, B.A.

Using hydrochemical methods in prospecting for ore deposits
in the Budyumkan Basin (eastern Transbaikalia). Trudy VITR
in the Budyumkan icl.
(MIRA 15:7)
no.3:295-303 'cl.
(Budyumkan Valley—Geochemical prospecting)

ALBO, T. MIHAITA, S.; CHEORGHIU, I.; ONCIOIU, P.; POPA, M.; ALRU, T.; MARINESCU, I.

Notes on the duration of immunity induced with swine-pest vaccine treated with formol and adsorbed on aluminum hydroxide. Stud. cercet. inframicrobiol., Bucur. 8 no.2:221-227 1957.

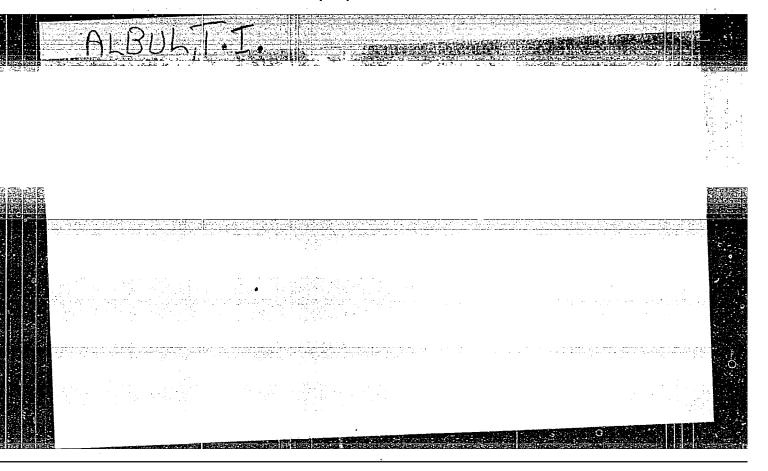
1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R. in sedinta din 20 decembrie 1955.

(VIRUS DISHASES, immunology hog cholera, duration of immunity after vacc. with formoltreated vaccine adsorbed on aluminum hydroxide)

(SWINE, diseases same)

(VACCINES AND VACCINATION hog cholera vaccine treated with formol & adsorbed on aluminum hydroxide, duration of immunity)

CIA-RDP86-00513R000100810014-6" APPROVED FOR RELEASE: 06/05/2000



CONSTANTINESCU, E.; ALBULESCU, D.

Iselation of an alkamine from Senecio doria L. Rev. sci. med. 6 no.1/2:25-28 '61.

(SENECIO) (AMINO ALCOHOLS)

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7. com

CONSTANTINESCU, E.

RUMANIA

Lecturer

School of Pharmacy, Bucharost (Facultatea de Farmacie).

Bucharest, Farmacia, Revista a Uniunii Sociotatilor de Stiinte Medicale din NPR, No 10, Vol X, Oct 62, pp 613-616.

"Study of the Distribution of Saponosides in Various Native Plants Belonging to the Scrophulariaceae Family." (Paper Compiled in the Laboratory for Pharmacognosy of the School of Pharmacy, Bucharest.)

Co-authors:

ALBULESCU, Doina, Pharmacist, School of Pharmacy, Bucharest.

BALTA, Elena, Student, School of Pharmacy, Bucharest.

Tep 2

ROTASU, P.; PECURARIU, O.; ALBULET, R.

Clinical aspects of a case of pulseless disease. Med. int., Bucur. 9
no.12:1879-1881 Dec 57.

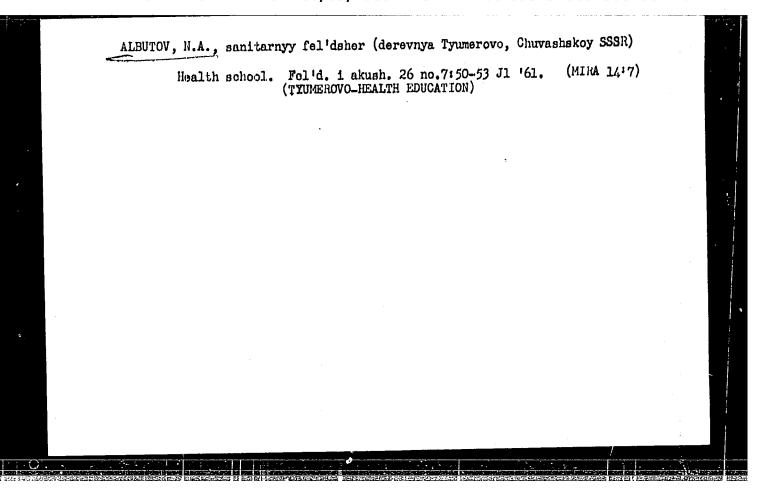
(AOMTA, diseases aortic arch synd., case report)

(ANTERITE, case reports aortic arch synd., Takayasu type)

ALBULET, Toma; DUMITRU, Ivan

Reserves of increasing the labor productivity in socialist trade. Problems econ 17 no.9:163 S '64.

1. Director, Commercial Directorate, Bucharest People's Council (for Albulet). 2. Head of Office, Commercial Directorate, Bucharest People's Council (for Dumitru).



ALBUTOV, N.A., sanitarnyy fel'dsher

Publication by nurses of health bulletins. Med. sestra 20 no.11:4245 N '61.

1. Iz Tyumerevskoy uchastkovoy bol'nitsy Yantikovskogo rayona
Chuvashskoy ASSR.

(HEALTH EDUCATION)

IOZHITSA, N.A. (Odessa); ALBUTOV, N.A. fel'dsher

Means of the further development of public health in rural localities. Fel'd. i akush. 28 no.8:42-45 Ag'63 (MIRA 16:12)

1. Zaveduyushchiy organizatsionno-metodicheskim otdelom Odesskoy oblastnoy klinicheskoy bol'nitsy (for Iozhitsa) 2. Tyumerevskaya uchastkovaya bol'nitsa, Chucashskaya ASSR (for Albutov).

ALUBRISHMA, M. F., CARLESHIY, M. S., SAZURAW, M. S., CARLE, Z. H.

"Physiological hyrienic principles of industrial training in the trade schools of machine building."

report submitted at the 13th All-Union Congress of Myrienists, Ipidemiologists and Infectionists, 1959.

L 35487-65 8/0288/64/000/003/0061/0066 ACCESSION NR: AP5007836 AUTHOR: Altuzhev, P.M.; Kopeykin, G.F.; Kuz'menko, Yu. P.; Cheshev, V.F.; Yarunov, A.N. TITLE: A study of torque meters SOURCE: AN SSSR. Sibinskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk, no. 3, 1964, 61-66 TOPIC TAGS: spring potentiometer, torque meter, capacitance torque meter, tensometric torque meter ABSTRACT: Modern technology usually employs three methods for the measurement of torque: a. breaking, b. reactive moments transmitted to the stator of the motor, and c. deformations of links which transmit the moment. Many practical devices utilize electrical elements. The authors concentrated their study on the tensometric and capacitative meters (with appropriate amplifiers) for the registration of torques on the shaft of the impact unit of an electromechanical hammer. Tests showed that the tensometric meters did not supply satisfactory records of either the active or the reactive moments (the vibrations of the electric motor, hammer recoil, and the passage of shock waves through the shaft cause distortions in the oscillograms). Capacitative meters yield poor **Card 1/2**

L 35487-65 ACCESSION NR: AP5007836 results for the same reasons	. However, a four-contact spring-potentiometric meter	
developed by the authors at a theoretical mechanics) of the electrical engineering institu- issued by the Komitet po dela- tee for Inventions and Disco- regults since it actually read	Novosibirskiy elektrotekhnicheskiy institut (Novosibirski) Novosibirskiy elektrotekhnicheskiy institut (Novosibirski) Novosibirskiy Novosibirskiy nad described earliev (Patent No. 37227 of 13 May 15 mi izobreteniy i otkrytiy pri sovete Ministrov SSSR [Commized Liphan	ess, amf:- ry shock or the
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ASSOCIATION: Novosibirsk Engineering Institute)	iy elektrotekhnicheskiy institut (Novosibirsk Electrical	
ASSOCIATION: Novosibirsk: Engineering Institute) BUBMITTED: 10Dec62	iy elektrotekhnicneskiy institut (Novossander) ENCL: 00 SUB CODE: EE	

YELPAT'YEVSKIY, M. P., ALB'YAKOV, M. P.

Forestry Engineering

Mechanizing forest drainage work, Les. khoz., 5 No. 3 (42), 1952

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

- 1. ALBYAKOV, M. P.: YELPAT'YEVSKIY, M.P.
- 2. USSR (600)
- 4. Excavating Machinery
- 7. Forest ditching machine. Les. khoz. 5 No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

ALBYAKOV, M.P., kandidat tekhnicheskikh nauk.

K-1A stump puller. Sel'khozmashina no.3:14-17 Mr '57.

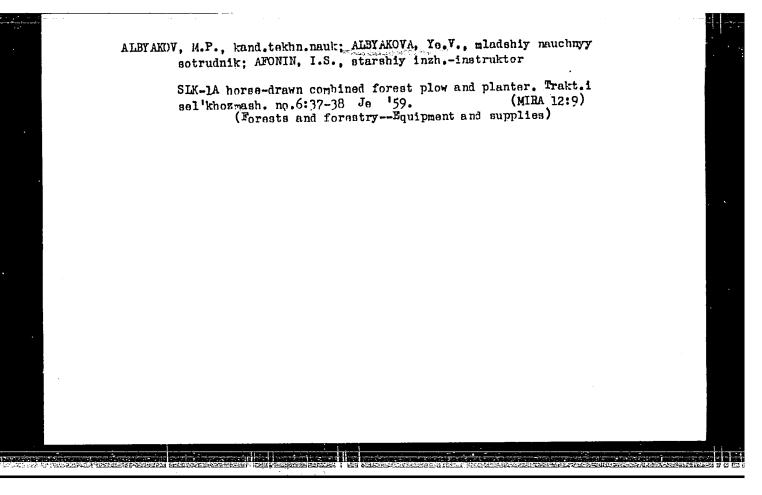
(MLRA 10:5)

(Agricultural machinery) (Clearing of land)

ALBYAKOV, M.P., kand.tekhn.nauk; ALBYAKOVA, Yo.V., mladehiy nauchnyy sorrudnik; AFONIN, I.S., starshiy inzh.-instruktor

SIK-1A horse-drawn combined forest plow and planter. Trakt.i sel'khozmash. no.6:37-38 Je '59. (MIRA 12:9)

(Forests and forestry-Equipment and supplies)

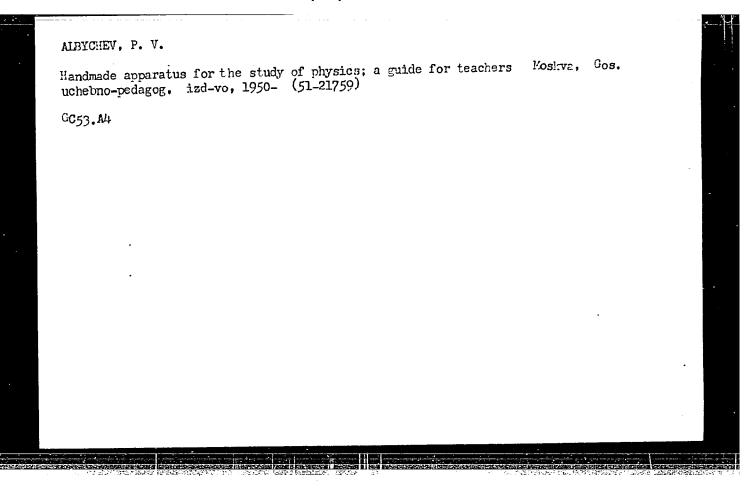


ALBWAKOV, M.P., kand.tekhn.nauk; CHERNIKOV, I.P., inzh.

K-2A stump grubber. Trakt. i sel'khozmash. 31 no.6:39 Je '61.

(MIRA 14:6)

(Clearing of land)



ALCHANGYAN, L.V.

Use of artificial fever in the treatment of some derma ose. Sov.med. 28 no.7:120-124 Jl 65. (MIRA 18:8)

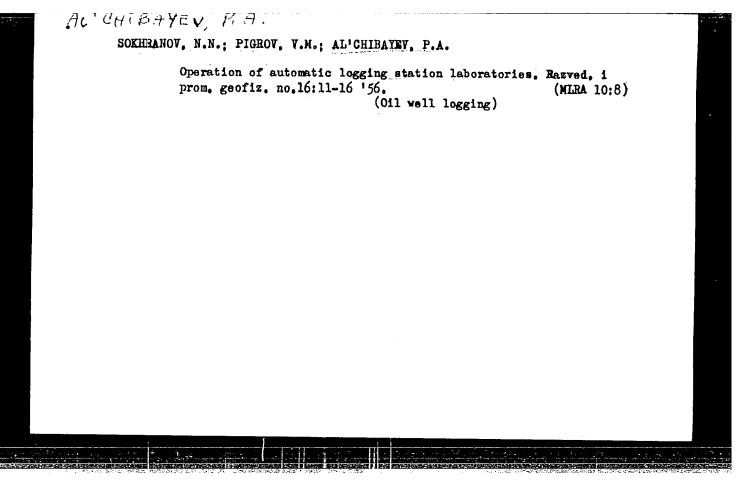
1. TSentral'nyy nauchno-issledovatel'skiy kozhno-venerologicheskiy institut (direktor - kand.med.nauk N.M.Turanov) Ministerstva zdravookhraneniya SSSR, Moskva.

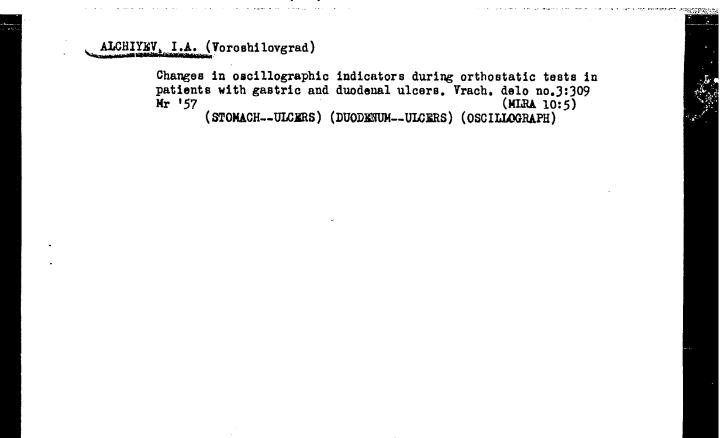
STUDNITSIN, A.A., prof.; ALCHANGYAN, L.V.

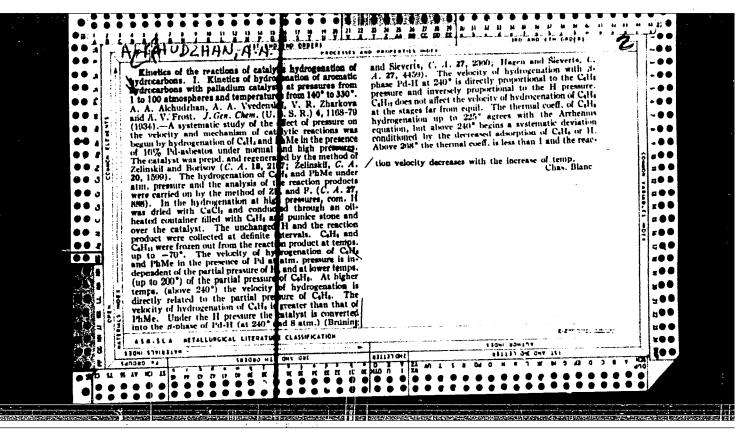
Use of pyrogenal in the treatment of psoriasis, Vent. derm. i ven. 38 no.7:47-2 Jl 164. (MIRA 18:4)

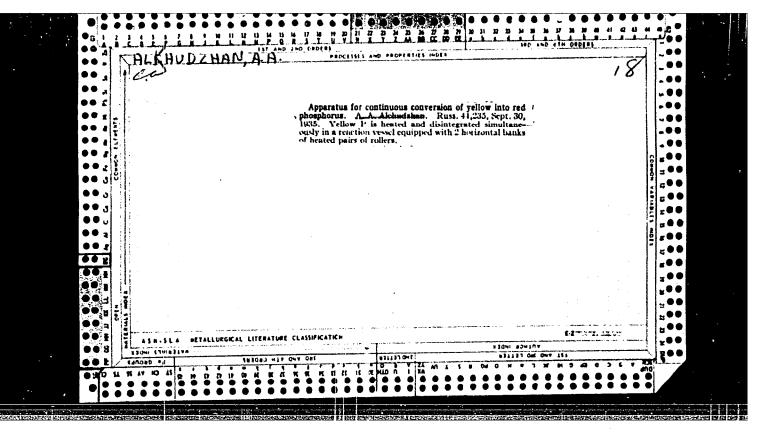
1. TSentral'nyy kozhno-venerologicheskiy institut (dir. - dotsent N.M. Turanov, zamestitel' direktora po nauchnoy chasti - prof. A.A. Studnitsin) Ministerstva zdravookhraneniya SSSR, Moskva.

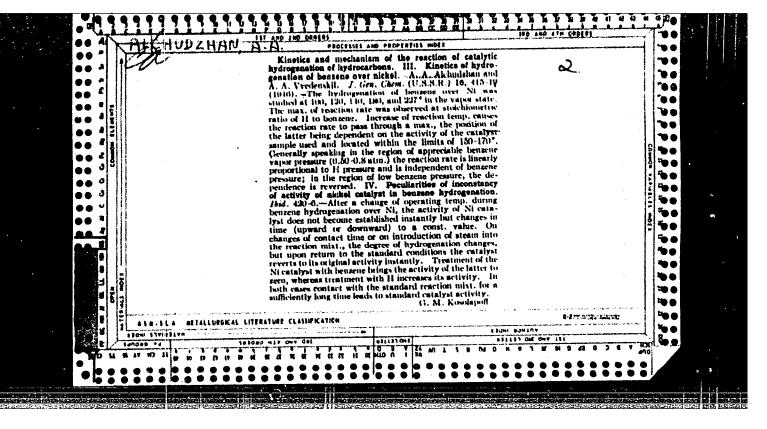
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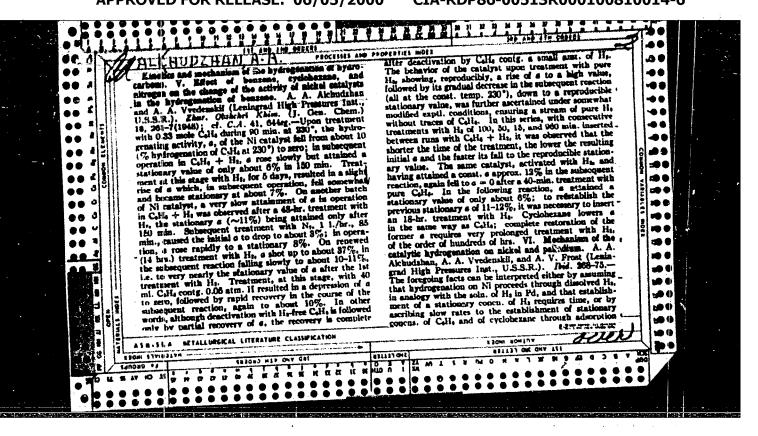


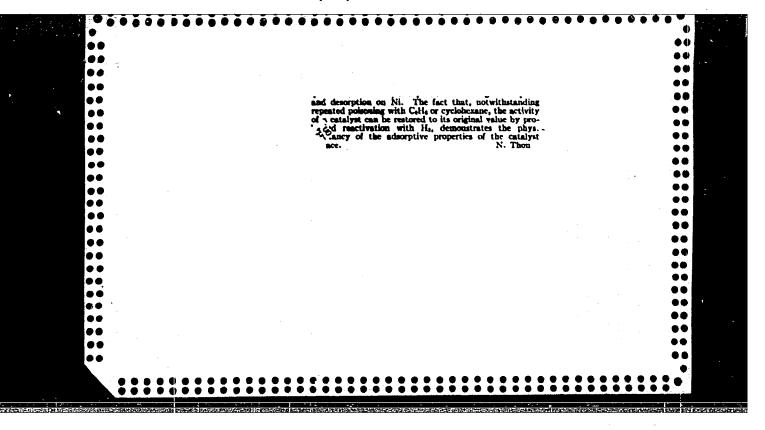


AI CHUDJAN, A. A.

"A study of the kinetics and the mechanism of reactions of hydrogenation of sydrocarbons. IV. A study of the pecularities in the inconstancy of the activity of the nickel catalyst in the hydrogenation of benzene." by A.A. Alchudjan and A. A. Vydensky (p. 426.)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1946, Volume 1c, No. 3





	USER/Chamistry - Hydrocarbons Chamistry - Hydration The Chamistry - Hydration The Hydration of Hydrocarbons. VI. The Mechanism of the Hydration of Hydrocarbons. VI. The Mechanism of the Hydration on Mickel and Falladium, A. A. Alchudzhan, A. A. Vyedemskiy, A. V. Frost, Leningrad Inst of High Pressures, 7t pp Thur Obshch Mhim Vol XVIII (LXXX), No 2 "Zhur Obshch Mhim" Vol XVIII (LXXX), No 2 Studies of speed of hydration of benzene on nickel and changes of this speed with relation to various stages in mocess of evaporation. Shows that in spite of in processes in activity when catalyst is processed by decreases in activity when catalyst is processed by benzene or oyclohexame, activity can be restored in both cases by treatment with hydrogen for long periods of time. Submitted 30 Jul 1946. 68740	
	Chemistry - Hydrocarbons Chemistry - Hydrocarbons Hydration of Hydrocarbons Catalytic Hydration on Micke Alchidzhan, A. A. Vvedenskiy d Inst of High Pressures 7t 1 ur Obshch-Khim" Vol XVIII () ur Obshch-Khim" Vol XVIII () ur Obshch-Khim Breed of hydration of unges of this speed with relapprocess of evaporation. Sho process of evaporation. Sho process in activity when cata izens or oyoloherans, activit time. Submitted 30 Jul 1946	
	medistry - Hydrocarbons remistry - Hydration of the Kinetics and Mechanism of Reaction of Fretion of Hydrocarbons. VI. The Mechanism of Featlon of Falytic Hydrocarbons. VI. The Mechanism of Featlon of Nutric Hydrocarbons. VI. The Mechanism of Featlon, A. A. Vredenskiy, A. V. Frost, Lenin-hudzhan, A. A. Vredenskiy, A. V. Frost, Lenin-hudzhan, A. A. Vredenskiy, A. V. Frost, Lenin-nst of High Pressures, 7t pp Obshch-Khim" Vol XVIII (LXXX), No 2 of speed of hydration of benzene on nickel sus of speed with relation to various stages of this speed with relation to various stages of expountably when catalyst is processed by see in activity when catalyst is processed by see or oycloherane, activity can be restored in set or cycloherane, activity can be restored in s. Submitted 30 Jul 1946. 6. Submitted 30 Jul 1946.	
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ALCHUDZHAN, A. A.

ALCHUDZHAN, A. A. -- "Study of Metals: Palladium, Cobalt, Nickel and Nickel on Aluminum Oxide as Hydromenation Catalysts." Sub 19 Sep 52, Moscow Order of Lenin State U imeni M. V. Lomonosev. (Dissertation for the Degree of Doctorate in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

ALCHUDZHAN, A. A.		РА 248Т11
USSR/Chemistry - Catalysts "Investigation of the Kinetics and Mechanism of the Reactions of Catalytic Hydrogenation of Hydrocarbons: (VII. Study of the System Pd-H as a Hydrogenation Catalyst," A. A. Alchudzhan, A. V. Frost; Inst of Petroleum, Acad Sci USSR; Moscow State U imeni M. V. Lomonosov	Zhur Fiz Khim, Vol 26, No 7, pp 1007-1013 The performance of metallic Pd as a hydrogenation catalyst was studied in the case of hydrogenation of benzene. After keeping Pd in an atmosphere of H, (1)	and after its brief conditioning by a H flow at 200° C, the rate of hydrogenation, during a brief initial period of hydrogenation at 200° C, first grew and then became stabilized. During the transition from one temp to another, the rate of hydrogenation corresponding to the new temp was established quickly, if no "anomaly" intervened. It was deta that the rates of hydrogenation corresponding to different temps, both for the pos and neg temp coeff, conform to Arrhenius' eq. The authors surmised that the solid system, Pd-H, formed by the reaction of H and Pd, acts as catalyst during the hydrogenation of beazene over Pd. They believe that the "anomalies" observed in the modification of the "anomalies" observed in the system, Pd-H, during hydrogenation, and from modifications in the conditions of existence of this system. (3) 248T11

Pd-H. After treatment with air at room temp or 2000c, Pd-H activity increases, but the rate of ben

plained by the breakdowns of this

phase of

catalytic hydrogenation of benzene; the increase in

phase of Pd-H which is inactive with respect to the tion, (while Pd-H remains in an atm of H), of a &benzene hydrogenation are explained by the formaof the system and its increased activity during the comes const (at 200°C), or goes on to the max and of hydrogenation gradually increases and then be-

This deactivation

then becomes const (at 224°C).

Pd-H activity during benzene hydrogenation is ex-

zene hydrogenation remains const. This increase in

the catalyst's activity is also explained by the

breakdown of the inactive $\beta-$ phase of Pd-H.

ALCHUE THAN, A. A.

FA 242T6

USSR/Chemistry - Hydrogenation

"Research into the Kinetics and Mechanism of Reac

Nov ß

Petroleum, Acad Sci USSR; Moscow State U Hydrogenation Catalyst," A. A. Alchudzhan, Inst of bons: IX. Study of the Solid System, Pd-H, as a tions of the Catalytic Hydrogenation of Hydrocar-

"Zhur F1z Khim " Vol 26, No 11, pp 1591-1599

24216

benzene on this deactivated Pd-H catalyst, the rate from the very beginning of the hydrogenation of tion is abruptly reduced, sometimes to zero. But time in an atm of H, at room temp, its catalytic ac The author shows that after Pd-H is kept for a long

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When the Pd-H catalyst has been deacti-

ment of the Pd-H system with a current of N at restoration of the catalyst's activity. Treathydrogenation of benzene on Pd-H accelerates the vated by treatment with hydrogen at 350°C, the

ALCHUDZHAN, A. A.

hour at 350°C

black decreases abruptly when heated for one The author finally observes that the activity of but actually increases the catalyst's activity. 3500 does not deactivate the catalyst, as does H Reactions of the Catalytic Hydrogenation of Hydro-USSR/Chemistry - Petroleum Catalysts "Research Into the Kinetics and Mechanism of the

Nov ž

carbons: X. Study of the Solid System, Pd-H, as a Hydrogenation Catalyst. Study of the Action of Hyof Pd-H at 300-350°C," A. A. Alchudzhan, Inst of Petroleum, Acad Sci USSR; Moscow State U and Nitrogen on the Catalytic Activity

The author declares that in an atm of H and at temps "Zhur Fiz Khim" vol 26, No 11, pp 1600-1609

of 300-350°C, the activity of the Pd-H system is abruptly but reversibly (not completely) reduced. degree to which this activity is decreased detreated with H. At lower temps, in H the activity of Pd-H gradually increases. The degree to which this activity is restored is a function pends on the length of time the Pd-H system is symbatic with the time which has elapsed since lowered temps, and is independent of the hydrothe deactivated catalyst has been exposed to higher temps, results from the formation of an The decrease in the activity of the catalyst, at genation or absence of hydrogenation of benzene. from the gradual breakdown of this inactive increase in activity, at lowered temps, results inactive phase of Pd-H, whereas the subsequent

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100810014-6"

ALCHUDZHAN, A.A.

Kinetics and mechanism of catalytic hydrogenation of hydrocarbons. II. Palladium black. Zhur. Fiz. Khim. 26, 1730-5 '52. (MLRA 6:2) (CA 47 no.13:6236 '53)

1. Gosudarstvennyy universitet imeni M.V. Lomonosova, Moscow.

ALCHUZHDAN, A.A.; KRISTOSTRYAN, Ye.T.

Study of mixed catalysts Pi - Ag, Pi - Cu and Pi - Au in hydration of benzene. Report No.2: Study of mixed Pi - Cu catalysts. Izv.
AN Arm. SSR. Ser. khim. nauk v.10 no.5:333-340 '57. (MIRA 11:1)

1. Yerivanskiy politekhnicheskiy institut im. K. Marksa.

(Catalysts) (Palladium-copper alloys)

ALCHUDZHAN, A.A.

Metallic nickel and nickel on aluminum oxide as hydrogenation catalysts. Report No.1: Study of the characteristics of the reversible change in the activity of metallic nickel catalyst at constant conditions of benzene hydrogenation.

Izv.AN Arm. SSR.Khim.nauki 12 no.6:377-388 159.

(MIRA 13:7)

1. Yerevanskiy politekhnicheskiy institut im. K.Marksa, Kafedra obshchey i analiticheskoy khimii. (Catalysts, Wickel) (Hydrogenation)

5(4) AUTHORS: Alchudzhan, A. A. Mantikyan, M. A. 507/76-33-4-5/32 TITLE: Investigation of Mixed Adsorption Catalysts for Hydrogenation (Issledovaniye smeshannykh adsorptsionnykh katalizatorov gidrirovaniya). I.Pd-Ag Catalysts on Silica Gel (I.Pd - Ag-katalizatory na silikagele) PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 4, pp 780 - 789 (USSR) ABSTRACT: If Ag, Cu, and Au, in analogy to hydrogen, are introduced into palladium they destroy its paramagnetism. Therefore it was assumed that this is also bound to lead to a destruction of the catalytic activity of Pd in benzene hydrogenation (Ref 2) which was partly confirmed (except for Au) (Ref 3). The strong influence exercised by hydrogen on the activity of palladium sponge (in the case of Pd-black very low influence) (Ref 4) led to the assumption that benzene hydrogenation takes place at different active places of Pd. For this reason the influence exercised by Au, Ag, and Cu on the Pd-adsorption catalysts in benzene hydrogenation was investigated in the Card 1/3 present case. The activity of the catalyst (C) was determined

Investigation of Mixed Adsorption Catalysts for SOV/76-33-4-5/32 Hydrogenation. I.Pd-Ag Catalysts on Silica Gel.

from the rate of benzene hydrogenation. Silica gel (SC) the surface of which was determined by Ye. V. Khrapova at the laboratoriya adsorptsii prof. A. V. Kiselev v MGU (Laboratory for Adsorption, Professor A. V. Kiselev at the MSU) was used as catalyst carrier. Pd-Ag adsorption catalysts (and for the purpose of comparison also pure Pd-(K)) which were produced according to the method of a simultaneous palladium-"ammoniate"-and silver adsorption were investigated. The (C) contained 1.0, 0.2 and 0.1% Pd of the weight of (SC) while the ratio Pd: Ag was varied from 49:11 to 1:9 at a degree of surface filling of (SC) within the limits of from 0.00087 to 0.0909. It was observed that with increasing Ag-content the activity of (C) increases to a maximum and then decreases. This effect of Ag depends on the degree of filling of the (SC)-surface. Under the conditions investigated benzene hydrogenation with respect to benzene and hydrogen takes place as reaction of the zero order with the apparent activation energy of benzene hydrogenation being practically

Card 2/3

Investigation of Mixed Adsorption Catalysts for SOV/76-33-4-5/32 Hydrogenation . I.Pd-Ag Catalysts on Silica Gel

equal for all (C) investigated. It is assumed that the effect of Ag on the Pd-SiO₂ (K) consists in the change of the active catalyst surface. The function of the rate of benzene hydrogenation as dependent on the contact time and the ratio E₂: C₆H₆ (Tables 2,3) are tabulated. There are 3 figures,

4 tables, and 15 references, 13 of which are Soviet.

ASSOCIATION: Yerevanskiy politekhnicheskiy institut im. K. Marksa (Yerevan Polytechnic Institute imeni K. Marx)

(1616-48W 101% ACOUNTO THE OT ANG THE UT W

SUBMITTED: September 19, 1957

card 3/3

5 (4), 5 (2) AUTHORS:

Alchudzhan, A. A., Indzhikyan, M. A. SOV/76-33-5-4/33

(Yerevan)

TITLE:

On the Catalytic Properties of the System Pt - Au (O

kataliticheskikh svoystvakh sistemy Pt - Au)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 5,

pp 983-987 (USSR)

ABSTRACT:

The data by publications on the system mentioned in the title (Refs 4-11) are discussed, and it is referred to the X-ray investigations by K. A. Lapteva, T. I. Borisova, and M. G. Slin'ko (Ref 11). According to these investigations, platinumgold alloys with 5.04 and 9.5 atm% Au are one-phase, and alloys with 20, 30, 39, 59, 63, and 87 atm% Au are two-phase. The measuring apparatus for the catalytic hydration process is described in reference 2. 0.01 g Pt or Au were used in the investigation of catalytic activity, and quantities with a Pt content of 0.01 g were used in the case of Au and Pt

catalysts. The ratio platinum: gold in the catalysts was varied from 99:1 to 1:3. Hydrogen and benzene in the ratio of 1:4 were used in hydrogenation at a temperature of 200°C and a throughput of 1.5 l H/h. Figure 1 shows the temporal variation

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On the Catalytic Properties of the System Pt - Au SOV

SOV/76-33-5-4/33

of the Pt and Pt-Au catalysts investigated. Hence it appears that the activity decreases in the beginning but then remains constant. Figure 2 shows the variation of the activity of Pt and Pt-Au catalysts depending on the gold content. The activity increases with small gold additions, reaches a maximum with 5 % Au ($2\frac{1}{2}$ times the activity of pure Pt), and then decreases continuously. A catalyst with 75 % Au is completely inactive. It might be that the activity increase observed with an addition of up to 5 % Au is related to the increase of the active surface which covers the actual activity decrease. Otherwise it would be inexplicable why a catalyst with only 25 % Pt is completely inactive. The authors had already earlier assumed (Refs 1 and 2) that there is a relation between the magnetic properties of the catalysts investigated by them, and the catalytic activity of the catalysts. They point out that according to data from publications (Ref 6) the paramagnetism of the Pt-Au alley with 68-70 % Au content equals zero. If gold is added, the amount of holes in the d-zone of the alloy and together with it the natalytic activity must decrease. The authors found similar relations in connection with the

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On the Catalytic Properties of the System Pt - Au

sov/76-33-5-4/33

other catalysts investigated by them. The fact that Pt-Au catalysts react differently on oxydation of SO₂ (Ref 13) can

be thus explained that platinum as well as gold are active towards SO2 which is not true for the hydrogenation of

benzene. The solubility of hydrogen in the system varies if gold is added and, there seems to be a direct relation between

this solubility and the catalytic activity. There are 2 figures and 16 references, 9 of which are Soviet.

ASSOCIATION: Yerevanskiy politekhnicheskiy institut im. K. Marksa

(Yerevan Polytechnic Institute imeni K. Marx)

SUBMITTED:

October 12, 1957

Card 3/3

5 (4) 507/76-33-7-4/40 Alchudzhan, A. A., Indzhikyan, M. A. AUTHORS: On the Catalytic Properties of the System Pd + Pt TITLE: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 7, pp 1467 - 1472 PERIODICAL: (USSR) It was already found (Refs 1-5) that there is a certain rela-ABSTRACT: tionship between the catalytic and magnetic properties of catalysts (C). In the present paper, the authors investigated the catalytic activity of mixed Pd + Pt (C) with respect to benzene hydrogenation, and compared the experimental results with data available in publications on the magnetic properties of these systems. The activity of the (C) was determined from the rate of benzene (I) hydrogenation to cyclohexane (II). The apparatus used is similar to that of (Refs 15 and 16). The catalysts were prepared by the method (Ref 17). The ratio of Pd to Pt was modified within the range 1: 10 - 10: 1. The experimental results (Table 1) indicate that with increasing Pt content the activity of the (C) attains a minimum and then rises again. A small content of Pt in Pd or of Pd in Pt causes mutual activation of Pd and Pt, respectively. It was observed that the catalytic activity at the Pd - Pt ratios investigated never drops Card 1/2

On the Catalytic Properties of the System Pd + Pt

SOV/76-33-7-4/40

to zero. This is ascribed to the fact that the magnetic susceptibility does not attain zero either at none of the above ratios. The minimum catalytic activity, determined at the ratios of Pd: Pt = 1:1 - 1:2, coincides with the minimum value of magnetic susceptibility of the alloy. Hydrogen, silver, and copper cause Pd to act in a similar way upon the magnetic and catalytic properties, i. e. the paramagnetism (P) of Pd as well as its catalytic activity with respect to (I)-hydrogenation are eliminated. Additions of Pt to Pd, however, do not destroy (as mentioned above) (P) and the catalytic activity. Additions of gold destroy (P) in Pd, but do not effect the catalytic activity. This is ascribed to excitation and splitting of the electron spin by the reaction heat. The catalytic activity is thus maintained. There are 3 figures, 2 tables, and 19 references, 10 of which are Soviet.

ASSOCIATION:

Yerevanskiy politekhnicheskiy institut im. K. Marksa (Yerevan

Polytechnic Institute imeni K. Mark)

SUBMITTED:

July 31, 1957

Card 2/2

5 (4) AUTHORS:

Alchudzhan, A. A., Mantikyan, H. A.

sov/76--33-8-3/39

TITLE:

Investigation of Mixed Hydrogenating Adsorption Catalysts. II, Activity of Mixed Pd-Ag Catalysts Adsorbed on SiO₂ as a

Function of the Order of Adsorption of Pd and Ag

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 8, pp 1691-1694 (USSR)

ABSTRACT:

In a previous paper (Ref 1) it was stated that at the transition of Pt.SiO₂ catalysts (C) into Pd + Ag + SiO₂ (C) the same

dependence of the reaction velocity on the hydrogen and benzene concentrations in the hydrogenation of benzene, as well as the same apparent activation energy, remain preserved. It was therefore assumed that Ag can effect a change in the size of the active surface without changing its energetic state. For this reason, the order of application of Pd and Ag, respectively, on SiO₂ was

studied in the present case. The (C) were produced as in (Ref 1) and examined at the benzene hydrogenation by the same working technique. The (C) obtained by an adsorption (A) and subsequent reduction of palladium salt and then silver salt proved completely inactive. In the course of this investigation, (C) were studied the Pd-content of which was 1.0 % of the SiO₂-weight and

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Investigation of Mixed Hydrogenating Adsorption SOV/76-33-8-3/39 Catalysts. II. Activity of Mixed Pd-Ag Catalysts Adsorbed on SiO₂ as a Function of the Order of Adsorption of Pd and Ag

which contained a Pd : Ag ratio of 4:1, and (C) with 0.2 % Pd and Pd : Ag = 52:1, 4:1, and 2:1. (C), in which the Ag-salt was adsorbed and reduced tefore the Pd-salt, exhibited an (A) analogues to that observed at a joint (A) of Pd and Ag on SiO₂, which means that as the Ag-content increases in case of a constant Pd-content, the (A) of (C) increases to a maximum and then falls (Table). The absence of an activity in the first-mantioned experiments is traced back to the deactivating effect of a higher Ag-concentration on Pd. There are 1 figure: 1 table and 2 Seviet references.

ASSOCIATION:

Yerevanskiy politekhmicheskiy institut im. K. Marksa (Yerevan

Polytechnic Institute imeni K. Marx)

SUBMITTED:

August 1, 1957

Card 2/2

S/171/60/013/001/001/005 E193/E483

AUTHOR: Alchudzhan, A.A.

TITLE: Investigation of Metallic Nickel and Alumina Supported

Nickel as Hydrogenation Catalysts. II. Preparation and

Activity of Catalysts Obtained From Nickel Acetate

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR, Khimicheskiye

nauki, 1960, Vol. 13, No.1, pp.3-15

TEXT: The object of the investigation, described in the present paper, was to study the preparation of metallic nickel by hydrogen reduction of nickel acetate and to establish to what extent the catalytic activity of the product is affected by the temperature of the reduction process. The experiments consisted in heating a small quantity (2.7 g) of nickel acetate in a stream of hydrogen (at a rate of flow $V_H = 1.5$ litre/h) for 4 h at 240, 262, 282 or 303°C (4 h being sufficient to complete the reaction) after which the temperature was reduced to 200°C (or lower) and hydrogenation of benzene was carried out at $V_H = 1.0$ litre/h with $H_2: C_6H_6 = 4:1$. The following conclusions were reached. (1) Hydrogen reduces nickel acetate to metallic nickel according

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S/171/60/013/001/001/005 E193/E483

Investigation of Metallic Nickel and Alumina-Supported Nickel as Hydrogenation Catalysts. II. Preparation and Activity of Catalysts Obtained From Nickel Acetate

to the reaction

$$(CH_3COO)_2NI + H_2 = N_1 + 2CH_3COOH$$

(2) According to theoretical calculations, the change in the free energy for this reaction increases with increasing rate of hydrogen flow and rising temperature which, according to the theory of super-saturation due to Roginskiy (Ref.2), should be accompanied by an increase in the catalytic activity of nickel obtained under these conditions. This, however, has not been confirmed by the experimental results which show that the higher the temperature of the reducing reaction, the lower is the catalytic activity of the product. (3) Activity of nickel catalysts, obtained by reduction of nickel acetate, decreases in the course of hydrogenation of benzene, the process of de-activation being irreversible. The higher the reduction temperature the higher is the maximum activity Card 2/4

S/171/60/013/001/001/005 E193/E483

Investigation of Metallic Nickel and Alumina-Supported Nickel as Hydrogenation Catalysts. II. Preparation and Activity of Catalysts Obtained From Nickel Acetate

of the product and the lower is its minimum (steady) value attained after de-activation. This seems to indicate that with rising temperature of the reduction process, a product with a higher free surface energy is obtained; however, its catalytic activity in hydrogenation of benzene is adversely affected owing to the "blocking" effect of cyclohexane. (4) Activity of the freshly prepared nickel catalysts, used for hydrogenation of benzene under a given set of conditions, initially increases, passes through a maximum and then decreases again to reach a steady value, lower The initial increase in the activity (which is than the original. not observed in subsequent applications) has been attributed to the fact that a certain quantity of hydrogen is absorbed by nickel during the reduction process, as a result of which an Ni-H solid solution is formed which is characterized by low catalytic activity. This solid solution decomposes during the hydrogenation process

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5/171/60/013/001/001/005 E193/E483

Investigation of Metallic Nickel and Alumina-Supported Nickel as Hydrogenation Catalysts. II. Preparation and Activity of Catalysts Obtained From Nickel Acetate

(or in storage) as a result of which the activity of the nickel catalyst increases. (5) It has been revealed by X-ray diffraction and electron-microscopic investigation of nickel catalysts, prepared in the course of the present investigation, that the size of the crystallites is practically independent of the temperature of the reduction process. This has been taken to indicate that the effect of the reduction temperature on the activity of the product is not directly associated with the size of the crystallites if they are relatively large (700 to 800 A). are 3 figures, 5 tables and 11 references: 9 Soviet and 2 non-Soviet.

ASSOCIATION: Yerevanskiy politekhnicheskiy institut im. K.Marksa Kafedra obshchey i analiticheskoy khimii (Yerevan Polytechnical Institute imeni K. Marx, Department of

General and Analytical Chemistry)

SUBMITTED:

June 14, 1959

Card 4/4

S/171/60/013/005/001/001 E142/E235

\$

AUTHORS:

Alchudzhan, A. A. and Mantikyan, M. A.

TITLE:

Investigations on Mixed Adsorption Hydrogenation

Catalysts: Part V: Investigations on Mixed Pd - Pt

Catalysts on Silicagel

PERIODICAL:

Izvestiya Akademii nauk Armyanskoy SSR, Khimicheskiye

nauki, 1960, Vol. 13, No. 5, pp. 307-314

TEXT: The catalytic activity of mixed Pd - Pt adsorption catalysts as well as of Pd - Sio₂ catalysts was tested by ascertaining the degree of hydrogenation of benzene to cyclohexane. The apparatus, starting materials, carrier and preparation of the catalysts, by simultaneous and subsequent adsorption of palladium and platinum onto silicagel, were similar to those described by A. A. Alchudzhan and M. A. Mantikyan (Ref. 15). The Pd + Pt - Sio₂ catalysts, containing varying quantities of Pd and Pt, were prepared by washing 10 g chemically pure Pd-chloride repeatedly with distilled water, dissolving it in 1 litre of water and acidifying the solution with hydrochloric acid (to prevent hydrolysis). The concentration of palladium in the palladium chloride solution

Card 1/4

S/171/60/013/005/001/001 E142/E235

Investigations on Mixed Adsorption Hydrogenation Catalysts: Part V: Investigations on Mixed Pd - Pt Catalysts on Silicagel

was determined gravimetrically; the titre of the solution was $T_{Pd} = 0.00570$ g/ml. The titre of the chloroplatinic acid, $T_{Pt} = 0.004556$ g/ml; the acid itself was prepared by the method described by A. A. Alchudzhan and M. A. Indzhikyan (Ref. 19). The activity of the Pd - SiO_2 , Pt - SiO_2 , and Pd+Pt- SiO_2 -catalysts was tested under identical conditions, by hydrogenating benzene at a temperature of 175° C, when the ratio of $H_2: C_6H_6 = 4:1$ and the rate of the hydrogen current was $V_{H_2} = 2.04$ litre/hour. The total pressure of hydrogen, benzene vapours and cyclohexane was 680 mm. In every test the catalysts contained the same quantity of palladium and platinum, i.e. Pd + Pt = 6.15×10^{-7} g.at. and they contained the two elements in the following ratios: 10:1; 3:1; 2:1; 1:1; 1:2. In this case palladium and platinum were applied simultaneously onto the silicagel. Two samples, containing the ratio Pd:Pt = 2:1, prepared by subsequent application of Pd and Pt - and vice versa, were also tested, as well as 3 samples of Pd- SiO_2 -catalysts and 3 samples of Pt- SiO_2 -catalysts, containing varying quantities of palladium and Card 2/4

S/171/60/013/005/001/001 E142/E235

Investigations on Mixed Adsorption Hydrogenation Catalysts: Part V: Investigations on Mixed Pd - Pt Catalysts on Silicagel

platinum. Each time the weighed portions of the catalysts were taken in relation to 3 g of silica gel. Both components were found to act as catalysts during the hydrogenation of benzene. The surface of the silica gel was covered to a degree within the limits 0.000634 and 0.001950. It was observed that the catalytic activity decreased on increasing the Pt-content in the Pd+Pt-SiO₂ catalysts and, after reaching a minimum, it increased when the concentration of the platinum was relatively high. The catalytic activity of the Pd-SiO2 catalysts decreased in relation to the degree of hydrogenation of benzene by the catalytically active platinum. largest decrease in activity occurred when the ratio of Pd:Pt = 2:1. The authors suggest that, at such small ratios of the two elements, intermetallic compounds are formed which possess negligible catalytic activity. The formation of the Pd-Pt-phase is hampered when the ratio of the two elements is 2:1, at subsequent application of palladium and platinum onto the carrier; the catalysts show, therefore, a very high degree of activity. At simultaneous appli-

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S/171/60/013/005/001/001 E142/E235

Investigations on Mixed Adsorption Hydrogenation Catalysts: Part V: Investigations on Mixed Pd - Pt Catalysts on Silicagel

cation of the two elements onto the carrier the catalytic activity decreases more sharply than in Pt-Pd-catalysts without a carrier. Acknowledgments are expressed to the students A. Akopyan and S. Gukasyan for their assistance. There are 2 tables, 1 figure and 19 references: 13 Soviet and 6 non-Soviet.

ASSOCIATION:

Yerevanskiy politekhnicheskiy institut imeni K. Marksa,

Kafedra obshchey i analiticheskoy khimii

(Department of General and Analytical Chemistry, Yerevan Polytechnical Institute imeni K. Marx.)

SUBMITTED:

July 7, 1960

Card 4/4

ALCHUDZHAN, A.A.; MANTIKYAN, M.A.; AYKAZYAN, A.M.

Mixed adsorption catalysts of dehydrogenation. Report No.1: Pd/SiO₂ as a catalyst of cyclohexane dehydrogenation. Izv.AN Arm.SSR. Khim.nauki 16 no.4:303-314 163.

Mixed adsorption catalysts of dehydrogenation. Report No.2: Pd-Ag/SiO as a catalyst of cyclohexane dehydrogenation. 315-325 (MIRA 16:9)

1. Yerevanskiy politekhnicheskiy institut imeni Karla Marksa, kafedra obshchey i analiticheskoy khimii.

ALCHUDZHAN, A.A.; MANTIKYAN, M.A.; AYKAZYAN, A.M.

Mixed adsorption catalysts of dehydrogenation. Part 3: Pd-Au/SiO₂ as a catalyst for cyclokexane dehydrogenation. Izv. AN Arm. SSR. Khim. nauki 17 no.4:368-374 464. (MIRA 18:6)

1. Yerevanskiy politërhnicheskiy institut im. K.Marksa, kafedra obshchey i analiticheskoy khimii.

ALCHUDZHAN, A.A.; GYUL'ZADYAN, A.A.; MESROPYAN, K.G.; ASHIKYAN, M.A.

Chemical treatment of tailings of Svarantsk iron-olivinite ores obtained by the concentration by magnetic separation. Part 2:

Solubility of tailings in sulfuric and nitric acids. Izv. AN Arm. SSR. Khim. nauki 18 no.1:96-103 165.

1. Yerevanskiy politekhmicheskiy institut imeni Karla Marksa, kafedra obshchey khimii.

ALCHUDZHAN, A.A.; MANTIKYAN, M.A.; AKHVERDYAN, M.M.

Mixed adsorption hydrogenation catalysts. Part 6; Mixed Pd-Ni catalysts on silica gel. Izv. AN Arm. SSR. Khim. nauki 18 no.3:244-247 '65. (MIRA 18:11)

1. Yerevanskiy politekhnicheskiy institut imeni Karla Marksa, kafedra obshchey i analiticheskoy khimii. Submitted June 6, 1964.

ALCHUDZHAN, A.A.; GYUL'ZADYAN, A.A.; MESROPYAN, K.G.; ASHIKYAN, M.A.

Chemical treatment of the tailings of Svara iron-olivinite ors obtained by magnetic separation dressing. Part 3:Treatment of hydrochloric solutions of ammonium magnesium tailings by the carbonate method. Izv. AN Arm. SSR. Khim. nauki 18 no.3: 313-324 '65. (MIRA 18:11)

1. Yerevanskiy politekhnicheskiy institut imeni Karla Marksa, kafedra obshchey i analiticheskoy khimii. Submitted May 9, 1964.

FOMENKO, Yu.I.; ALCHUDZHAN, G.A.

Propulsive speed and maneuvering trials of the standardized
"Inzhener Belov"-type cotton and lumber carriers. Inform. sbor.
TSNIIMF no.59. Tekh. ekspl.mor.flota no.7:22-37 '61. (MIRA 16:6)
(Ship trials) (Freighters)

FOMENKO, Yu. I.; AICHUDZHAN, G.A.

Propulsive and manoeuvring trials of the passenger notorship Grigorii Ordzhonikidze. Inform. sbor. TSNIIMF no.75 Tekh. ekspl. mor. flota no.14:3-19 162. (MIRA 16:3) (Ship trials)

BLAGOVESHCHENSKIY, S., doktor tekhn.nauk, prof.; ALCHUDZHAN, G., inzh.

New information for captains on ship stability. Mor. flot 20 no.11: 4-7 N '60. (MIRA 13:11)

1. TSentral'nyy nauchno-issledovatel'skiy institut morskogo flota. (Stability of ships)

L 5370-66 EWT(m)/EPF(c)/EWP(v)/EWP(j)/T WW/RM ACC NR: AP5024576 SOURCE CODE: UR/0292/65/000/009/0010/0013 AUTHOR: Alekseyevskiy, V. V. (Corresponding member AN ArmSSR); Chatinyan, (Candidate of technical sciences); Gastyan, L. K. (Engr.); Alchudzhyan (Engr.) ORG: none TITLE: Electrical machinery up to 100 kw with open slots and magnetic wedges SOURCE: Elektrotekhnika, no. 9, 1965, 10-13 TOPIC TAGS: synchronous machine $\chi^{i\lambda}$, γ^{j} ABSTRACT: Heretofore, synchronous generators up to 100 kw capacity have had "soft" coils embedded in semiclosed slots, which has required much labor for building generators. A possibility has been investigated to build these machines with prefabricated thermosetting-plastic-bonded coils placed in open slots and covered with magnetic wedges. Of many combinations tested, a 90%-iron 10%-bakelitepowder press composition is reported as the best material for the magnetic wedges. Three synchronous generators, 6.75, 75, and 125 kva, remodeled for the magnetic-UDC: 621.313.042.1.001.8

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ACC NR: AP50245	76		etan tanan salah sal Salah salah sa	·	7
lower weight of	ion, were tested magnetic wedges, copper and a hi ad losses; (2) The state of the s	instead of glass	s-textolite one	s, results in	a
magnetic wedges magnetic wedges bond material. (are used, within would require be Orig. art. has: A	n a permissible retter press molds 4 figures and 4 t	range; (3) Practical and a more subtables.		
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ALCSER, J.

Irrigation doubles production; significance and economic character of our irrigation. p. 200.

Vol. 1115, no. 4, Apr. 1956 TERMESZET ES TARSADALOM Eudapest, Hungary

Source: East European Accession List. Library of Congress Vol. 5, No. 3, August 1956

ALCSER, Jeno, okl.gazda; PERENYI, Karoly, okl.mernok

Irrigation development in Hungary from 1957 to 1960. Vizugyi kozl no.1:3-22 '62.

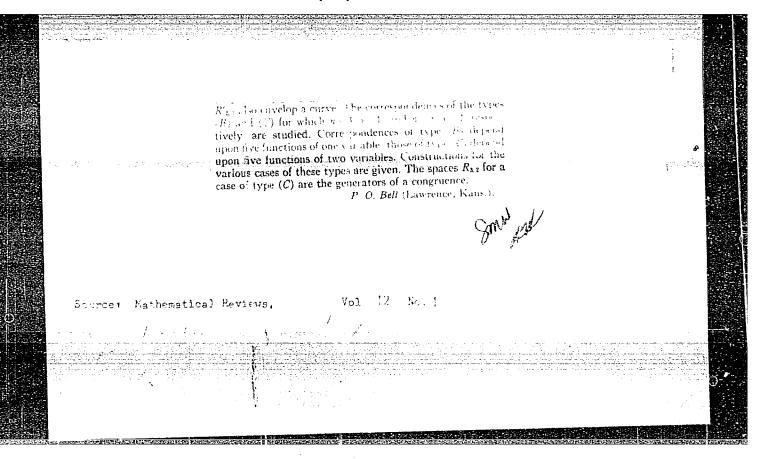
1.Az Orszagos Vizugri Poigazgatosag foagronomusa (for Alcser). 2. A Vizgazdalkodasi Tudomanyos Kutato intezet tudomanyos munkatarsa (for Perenyi).

ALCSER, Jeno; GABRI, Mihaly

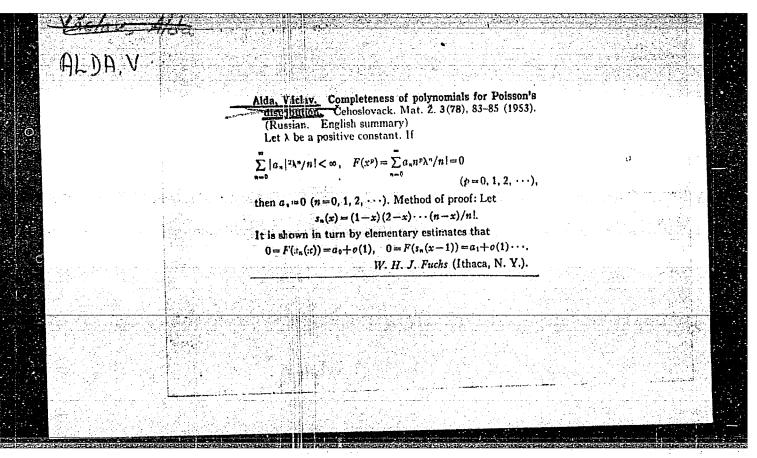
The irrigation system of Hungary and basic principles for its development. Vizugyi kozl no.4:422-451 158.

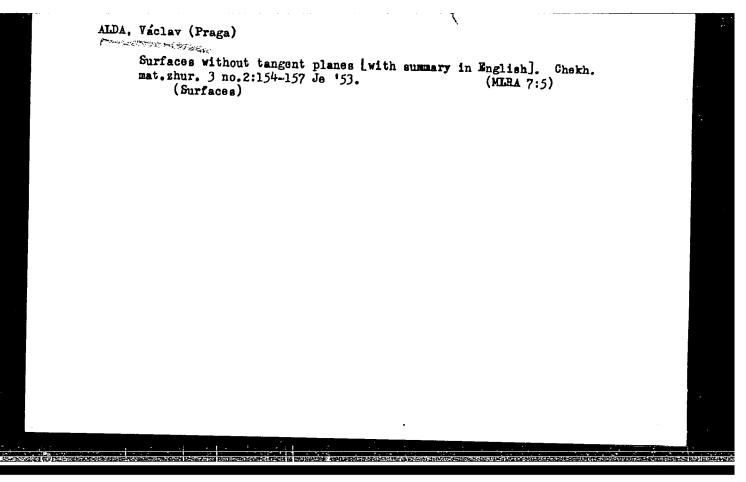
APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100810014-6"

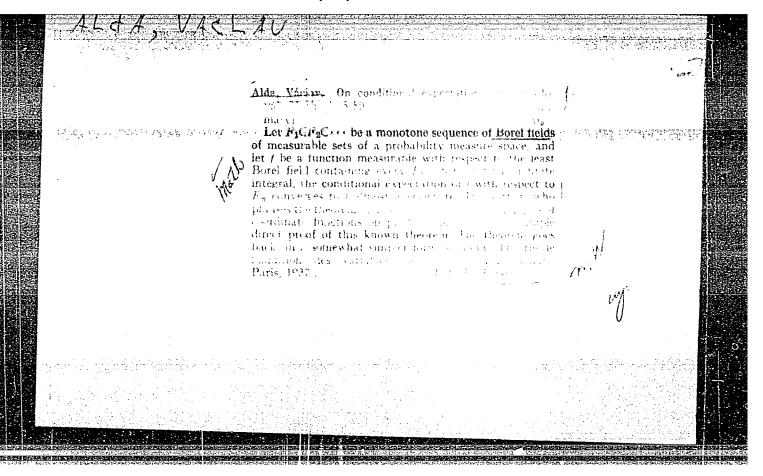
Alla, Villeray Alda, Václay Sur les propriétés affines des correspondances - analytiques. Caso as 17st. Mat. Evs. 75, 51, 67 (1950) Apr. Park, and are an even a shorty. The reasons Salar diameters in a start, and (b) A; are parameters K denote a curve passing through A. Because of the above (and in (B)), (b) form pencils of lines in (A) and (B), inequality the curves K and $T^{-1}CK$ usually make contact 6.5 form a penied of lows in one plane (A) for (B) and of only the first order. If these curves are projected in the envelop a curve in the other plane, (d) envelop curves in direction $V = T^{-1}d^2B - d^2A$ onto a hyperplane through A, both planes. The correspondences for plane and space are the hyperplane sections have second order contact at A. and provide the formula of the first T detection TIn the case of a plane of $(2\pi t)$ convexes an attento M such that InA - In InA - a B, the A on B, so that I is refer to me point of an in the Freenster diluter space $R_{\rm KP}$ on $\sigma_{\rm SP}$ sigh that the curves Chand I HE have contact of so and Commence of the second Case it is a proper of the street of the property of the prop A characteristic direction of the correspondence Corretheretion such that to each ourse passing through Action and the contract of the contract of the contract of wowners hathematical Reviews.

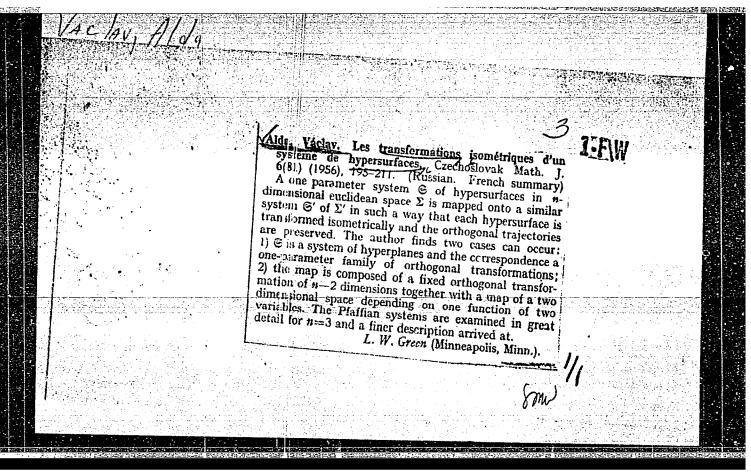


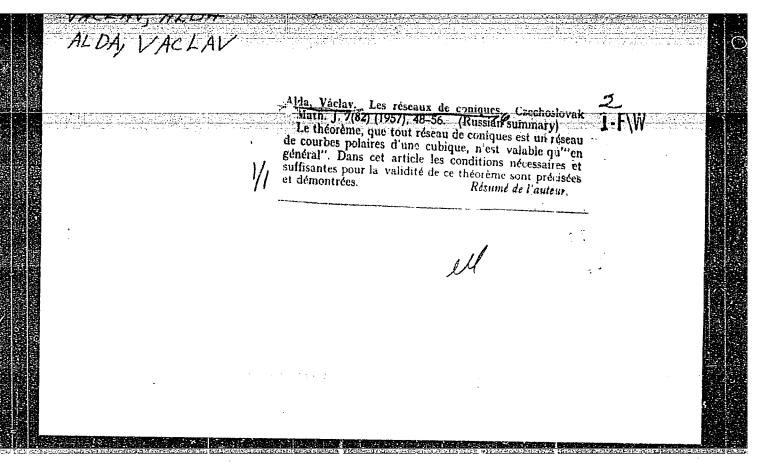
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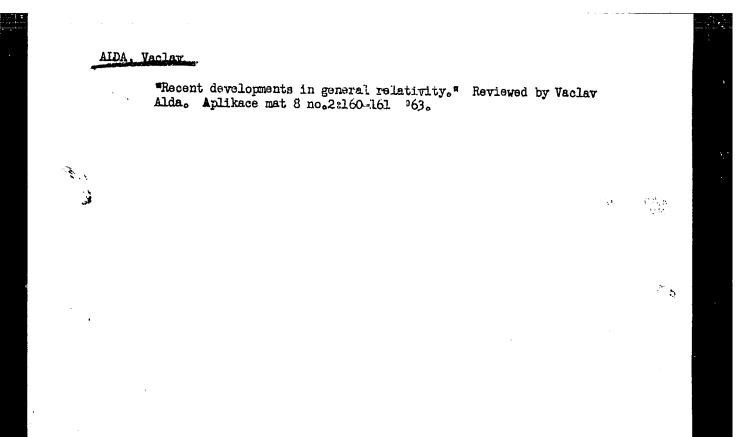


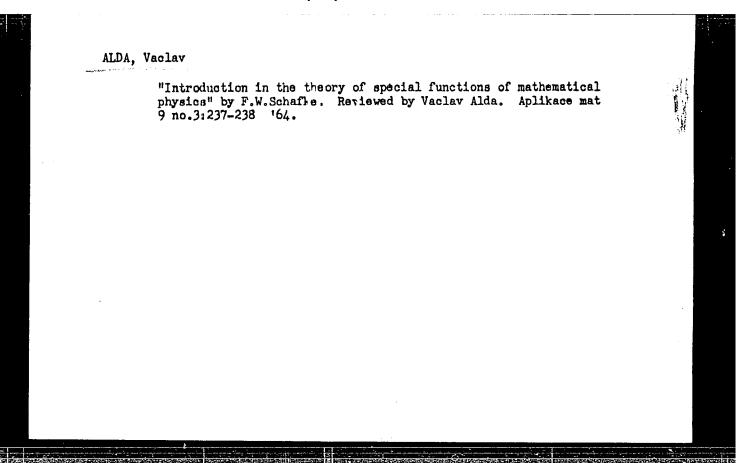


ALDA, Vaclav

On eigenvalues of differential equations Mf=2Nf. Cas pro pes mat 87 no.4:399-403 0 162.

1. Vysoka skola strojni, Idberec, Halkova 6.





AUTHOR: Al'da, Vatslav-Alda, V. (Prague) ORG: none TITLE: Eigenvalues of differential equations Mf equals lambda Nf. II. SOURCE: Casopis pro pestovani matematiky, v. 90, no. 2, 1965, 134-142 TOPIC TAGS: differential equation, operational calculus, Hilbert space, eigenvalue ABSTRACT: In this article a solution is given for the problem of finding the eigenvalues of the differential equation Mf = ANf by reducing it to the problem concerning the eigenvalues of a compact symmetric operator in Hilbert space. The major assumptions are: M is a formally solfadjoint positive operator whose order exceeds the order of the formally selfadjoint operator N by at least 2. Orig. art. has: 16 formulas. JPRS/ SUB CODE: 12 / SUBM DATE: 29Dec62 / OTH REF: COA / SOV REF: CO3	- [1. 10600-66 ACC NR: AF6004051 SOURCE CODE: CZ/0081/65/090/002/0134/0142	
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	AUTHOR: Al'da, Vatslav-Alda, V. (Prague) ORG: none	
	TITIE: Eigenvalues of differential equations Mf equals lambda NF. III.	
	SOURCE: Casopis pro pestovani matematiky, v. 90, no. 2, 1965, 143-146	
	TOPIC TAGS: eigenvalue, differential equation, operational calculus, Hilbert space	
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